BACKLIGHT FOR A LIQUID CRYSTAL DISPLAY HAVING HIGH LIGHT-RECYCLING EFFICIENCY

ABSTRACT

A backlight for a liquid crystal display (LCD) employing light recycling. In one embodiment the backlight includes a light guide fabricated from a substantially non-absorptive material and a reflective layer fabricated from a highly reflective material. In another embodiment the backlight includes a light source, a bundle of optical fibers, and a reflective layer fabricated from a highly reflective material, wherein the bundle of optical fibers is configured to receive light from the light source and distribute it to the reflective layer.